

Title (en)
GAS COMPRESSOR

Title (de)
GASVERDICHTER

Title (fr)
COMPRESSEUR À GAZ

Publication
EP 2851568 A1 20150325 (EN)

Application
EP 13772442 A 20130328

Priority
• JP 2012084082 A 20120402
• JP 2013059385 W 20130328

Abstract (en)
In a gas compressor, an outline shape of an inner peripheral surface (41) of a cylinder (40) is set such that in a point before a compression chamber (43B) adjacent to a compression chamber (43A) in the upstream side in the rotational direction (W) is exposed to a discharge hole (45b) of a primary discharge portion (45) with rotation of a rotor (50) in the rotational direction (W) (point where the compression chamber (43B) is positioned upstream of an angular position of being exposed to the discharge hole (45b) of the primary discharge portion (45)), a pressure of the refrigerant gas (G) inside the compression chamber (43) reaches a discharge pressure. Therefore the discharge hole (45b) of the primary discharge portion (45) always discharges a refrigerant gas (G) from the compression chamber (43) to prevent generation of the discharge pulsation.

IPC 8 full level
F04C 18/344 (2006.01); **F04C 2/344** (2006.01); **F04C 29/00** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)
F01C 21/106 (2013.01 - EP US); **F04C 2/344** (2013.01 - US); **F04C 15/064** (2013.01 - US); **F04C 18/3441** (2013.01 - EP US); **F04C 28/10** (2013.01 - EP US); **F04C 29/0035** (2013.01 - EP US); **F04C 2250/102** (2013.01 - EP US); **F04C 2250/30** (2013.01 - EP US)

Cited by
EP2889487A4; EP3650634A1; US9695691B2; US11428224B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2851568 A1 20150325; **EP 2851568 A4 20151230**; CN 104204531 A 20141210; CN 104204531 B 20160914; JP 2013213438 A 20131017; JP 5826692 B2 20151202; US 2015064042 A1 20150305; US 9528514 B2 20161227; WO 2013150967 A1 20131010

DOCDB simple family (application)
EP 13772442 A 20130328; CN 201380016387 A 20130328; JP 2012084082 A 20120402; JP 2013059385 W 20130328; US 201314389871 A 20130328